

In the Claims

1. (currently amended) A medical instrument comprising:
an instrument body having at least one outer surface,
a recess which is provided in said instrument body and which comprises a collar forming an undercut in at least one partial region of the recess, said collar having an inside diameter that is smaller than a length and a width of said recess,
a wireless readable data carrier embedded in said recess, said data carrier having outer dimensions which are smaller than said inside diameter, wherein said wireless readable data carrier comprises a transponder and an antenna for receiving and sending electromagnetic interrogation and answering signals, and
an embedding medium arranged between said data carrier and said recess and forming a body by means of which said data carrier is non-removable held in said undercut;
said embedding medium selected from the group consisting of: epoxy resin or other duroplastic synthetic materials, cement, ceramics and combinations thereof.
- 2.-3. (cancelled)
4. (previously presented) The medical instrument of claim 1, wherein said embedding medium has a first elasticity modulus and said instrument body has a second elasticity modulus, and wherein said first elasticity modulus is larger than said second elasticity modulus.
5. (previously presented) The medical instrument of claim 1, wherein said embedding medium has a first elasticity modulus and said instrument body has a second elasticity modulus, and wherein said first elasticity modulus is smaller than said second elasticity modulus.
6. (canceled)

7. (withdrawn) The medical instrument of claim 1, wherein said means include an embedding medium, which embedding medium completely encases said data carrier.

8. (previously presented) The medical instrument of claim 1, wherein said embedding medium has a first heat conductivity, wherein said instrument body has a second heat conductivity, and wherein said first heat conductivity is smaller than said second heat conductivity.

9. (previously presented) The medical instrument of claim 1, further comprising at least one spacer arranged between said data carrier and said recess.

10. (withdrawn) The medical instrument of claim 1, wherein said data carrier is held substantially equidistantly in respect of said instrument body.

11. (original) The medical instrument of claim 1, wherein said recess comprises an opening which forms a window in said outer surface of said instrument body.

12. (original) The medical instrument of claim 1, wherein said recess is made visually recognizable in the region of said outer surface.

13. (original) The medical instrument of claim 1, wherein said data carrier is surrounded by a glass casing.

14. (cancelled)

15. (withdrawn and currently amended) The medical instrument of claim 1 44, wherein said recess expands in funnel-shaped manner in the direction of said outer surface in the region of said antenna.

16. (cancelled)

17. (currently amended) A medical instrument comprising:
an instrument body having an outer surface,
a recess provided in said instrument body including a collar having a length L_K and a width B_K forming an undercut in at least one partial region of the recess, said recess having a length L_H and a width B_H , where L_H is greater than L_K and B_H is greater than B_K ;
a wireless readable data carrier embedded in said recess, said data carrier having a length L_T , where L_T is less than L_K , wherein said wireless readable data carrier comprises a transponder and an antenna for receiving and sending electromagnetic interrogation and answering signals; and
an embedding medium inserted into said recess and setting up in and around said data carrier such that a rigid body is formed arranged between said data carrier and said recess and forming a body by means of which said data carrier is non-removable held in said undercut as a unitary rigid structure.

18. (currently amended) The medical instrument according to claim 17 where said recess includes an opening at a top of said recess having dimensions larger than the length L_K and a width B_K .

19. (cancelled)

20. (currently amended) A medical instrument comprising:
an instrument body having an outer surface,
a recess which is provided in said instrument body and which comprises a collar forming an undercut in at least one partial region of the recess, said collar having an inside diameter that is smaller than a length and a width of said recess,
a wireless readable data carrier embedded in said recess, said data carrier having outer dimensions which are smaller than said inside diameter, wherein said wireless readable data carrier comprises a transponder and an antenna for receiving and sending electromagnetic interrogation and answering signals, and

an embedding medium encapsulating and forming a body around said data carrier such that said data carrier is decoupled from said instrument body wherein any mechanical or thermal load acting upon said instrument body is not directly transferred to said data carrier;

said embedding medium selected from the group consisting of: epoxy resin or other duroplastic synthetic materials, cement, ceramics and combinations thereof.

21. (previously presented) The medical instrument according to claim 20 wherein said embedding medium is selected from the group consisting of epoxy resin, cement, ceramic or combinations thereof.